Subject and Author Index

PCI JOURNAL, Volume 23, 1978

The following is an index of all reports, papers, discussions, and abstracts of PCI special publications which have appeared in the PCI JOURNAL during the past year. Reports and papers under each subject category are arranged chronologically. Depending on their scope, most articles are listed more than once.

For the reader's convenience an author's index is included. The names of the authors are listed in alphabetical order, with the title, volume number, date of publication, and page numbers given.

Most back issues of the PCI JOURNAL of recent years are still available. In addition, many of the important reports and papers are available as reprints. In cases where individual reprints are unavailable, copies of articles are available at cost of reproduction.

SUBJECT INDEX

ABSTRACTS OF PCI SPECIAL PUBLICATIONS

Precast Segmental Box Girder Bridge Manual, V. 23, No. 3, May-June 1978, p. 106.

PCI Design Handbook—Precast Prestressed Concrete (Second Edition), V. 23, No. 4, July-Aug. 1978, pp. 112-113.

ACOUSTICS

"Acoustical Properties of Precast Concrete," V. 23, No. 2, Mar.-Apr. 1978, pp. 42-61.

ADMIXTURES

"High-Range Water-Reducing Admixtures in Precast Concrete Operations," by Weston T. Hester, V. 23, No. 4, July-Aug. 1978, pp. 68-85.

APPLICATION

Airport

"Precast Prestressed Superstructure Enhances Saskatoon Air Terminal," V. 23, No. 3, May-June 1978, pp. 49-50.

"Precast Prestressed Segmentally Constructed Air Traffic Control Tower," V. 23, No. 3, May-June 1978, pp. 82-89.

Bridges

"World's First Prestressed Bridge Using Precompressed Reinforcement," V. 23, No. 2, Mar.-Apr. 1978, pp. 62-64.

"Prestressed Concrete Pedestrian Bridges," V. 23, No. 2, Mar.-Apr. 1978, pp. 79-104.

"Spliced Precast Girders Provide Solution for Multispan Prestressed Bridge," V. 23, No. 3, May-June 1978, pp. 51-53.

"Multispan Prestressed Pedestrian Bridge," V. 23, No. 4, July-Aug. 1978, pp. 86-89.

General

"Precast Concrete Platforms Designed to Withstand Hurricanes," V. 23, No. 1, Jan.-Feb. 1978, p. 59.

ARCHITECTURAL PRECAST CONCRETE

"Approaches to Standardization of Architectural Precast Concrete Panels," by Richard Pollei, Michael R. Altenberg, and Joseph Z.

Subject and Author Index

PCI JOURNAL, Volume 23, 1978

The following is an index of all reports, papers, discussions, and abstracts of PCI special publications which have appeared in the PCI JOURNAL during the past year. Reports and papers under each subject category are arranged chronologically. Depending on their scope, most articles are listed more than once.

For the reader's convenience an author's index is included. The names of the authors are listed in alphabetical order, with the title, volume number, date of publication, and page numbers given.

Most back issues of the PCI JOURNAL of recent years are still available. In addition, many of the important reports and papers are available as reprints. In cases where individual reprints are unavailable, copies of articles are available at cost of reproduction.

SUBJECT INDEX

ABSTRACTS OF PCI SPECIAL PUBLICATIONS

Precast Segmental Box Girder Bridge Manual, V. 23, No. 3, May-June 1978, p. 106.

PCI Design Handbook—Precast Prestressed Concrete (Second Edition), V. 23, No. 4, July-Aug. 1978, pp. 112-113.

ACOUSTICS

"Acoustical Properties of Precast Concrete," V. 23, No. 2, Mar.-Apr. 1978, pp. 42-61.

ADMIXTURES

"High-Range Water-Reducing Admixtures in Precast Concrete Operations," by Weston T. Hester, V. 23, No. 4, July-Aug. 1978, pp. 68-85.

APPLICATION

Airport

"Precast Prestressed Superstructure Enhances Saskatoon Air Terminal," V. 23, No. 3, May-June 1978, pp. 49-50.

"Precast Prestressed Segmentally Constructed Air Traffic Control Tower," V. 23, No. 3, May-June 1978, pp. 82-89.

Bridges

"World's First Prestressed Bridge Using Precompressed Reinforcement," V. 23, No. 2, Mar.-Apr. 1978, pp. 62-64.

"Prestressed Concrete Pedestrian Bridges," V. 23, No. 2, Mar.-Apr. 1978, pp. 79-104.

"Spliced Precast Girders Provide Solution for Multispan Prestressed Bridge," V. 23, No. 3, May-June 1978, pp. 51-53.

"Multispan Prestressed Pedestrian Bridge," V. 23, No. 4, July-Aug. 1978, pp. 86-89.

General

"Precast Concrete Platforms Designed to Withstand Hurricanes," V. 23, No. 1, Jan.-Feb. 1978, p. 59.

ARCHITECTURAL PRECAST CONCRETE

"Approaches to Standardization of Architectural Precast Concrete Panels," by Richard Pollei, Michael R. Altenberg, and Joseph Z.

Garner, V. 23, No. 6, Nov.-Dec. 1978, pp. 36-52.

BEARING WALLS

"Recommended Practice for the Design of Prestressed Concrete Columns and Bearing Walls," Disc., by Leslie D. Martin, and PCI Committee on Prestressed Concrete Columns, V. 23, No. 1, Jan.-Feb. 1978, pp. 92-94.

BRIDGES

"Tentative Design and Construction Specifications for Bridge Deck Panels," by PCI Bridge Committee, V. 23, No. 1, Jan.-Feb. 1978, pp. 32-39.

"World's First Prestressed Bridge Using Precompressed Reinforcement," V. 23, No. 2, Mar.-Apr. 1978, pp. 62-64.

"Prestressed Concrete Pedestrian Bridges," V. 23, No. 2, Mar.-Apr. 1978, pp. 79-104.

"Spliced Precast Girders Provide Solution for Multispan Prestressed Bridge," V. 23, No. 3, May-June 1978, pp. 51-53.

"Multispan Prestressed Pedestrian Bridge," V. 23, No. 4, July-Aug. 1978, pp. 86-89.

"Tentative Design and Construction Specifications for Bridge Deck Panels," Disc., by Robert M. Barnoff, F. G. Sutherland, and PCI Bridge Committee, V. 23, No. 6, Nov.-Dec. 1978, 80-82.

COLUMNS

"Recommended Practice for the Design of Prestressed Concrete Columns and Bearing Walls," Disc., by Leslie D. Martin and PCI Committee on Prestressed Concrete Columns, V. 23, No. 1, Jan.-Feb. 1978, pp. 92-94.

CONNECTIONS

"Spliced Precast Girders Provide Solution for Multispan Prestressed Bridge," V. 23, No. 3, May-June 1978, pp. 51-53.

"Full Scale Test of Continuous Prestressed Hollow-Core Slab," by I. Rosenthal, V. 23, No. 3, May-June 1978, pp. 74-81.

Shear-Friction

"Proposed Revisions to Shear-Friction Provisions," by A. Fattah Shaikh, V. 23, No. 2, Mar.-Apr. 1978, pp. 12-21.

CONSTRUCTION

"Precast Prestressed Superstructure Enhances Saskatoon Air Terminal," V. 23, No. 3, May-June 1978, pp. 49-50.

"Spliced Precast Girders Provide Solution for Multispan Prestressed Bridge," V. 23, No. 3, May-June 1978, pp. 51-53.

"Precast Prestressed Segmentally Constructed Air Traffic Control Tower," V. 23, No. 3, May-June 1978, pp. 82-89.

"Multispan Prestressed Pedestrian Bridge," V. 23, No. 4, July-Aug. 1978, pp. 86-89.

CURING

"Low Temperature Curing of Precast Prestressed Concrete Products," Disc., by Paul H. Coleman, Weston Hester, and John B. Whittaker, V. 23, No. 2, Mar.-Apr. 1978, pp. 111-113.

DESIGN

"Precast Prestressed Concrete Industry—Code of Standard Practice for Precast Concrete," by PCI Committee on Industry Standards, V. 23, No. 1, Jan.-Feb. 1978, pp. 14-31.

"Tentative Design and Construction Specifications for Bridge Deck Panels," by PCI Bridge Committee, V. 23, No. 1, Jan.-Feb. 1978, pp. 32-39.

"State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," by Neil M. Hawkins, V. 23, No. 1, Jan.-Feb. 1978, pp. 40-58.

"Thermal Design of Precast Concrete Building Envelopes," V. 23, No. 1, Jan.-Feb. 1978, pp. 60-90.

"Recommended Practice for the Design of Prestressed Concrete Columns and Bearing Walls," Disc., by Leslie D. Martin and PCI Committee on Prestressed Concrete Columns, V. 23, No. 1, Jan.-Feb. 1978, pp. 92-94.

"Recommended Practice for Design, Manufacture and Installation of Prestressed Concrete Piling," Disc., by H. Kent Preston and PCI Committee on Prestressed Concrete Piling, V. 23, No. 1, Jan.-Feb. 1978, p. 100.

"Proposed Revisions to Shear-Friction Provisions," by A. Fattah Shaikh, V. 23, No. 2, Mar.-Apr. 1978, pp. 12-21.

"Full-Scale Torsion, Shear, and Bending Tests of Prestressed I-Girders," by Alan H. Mattock and A. N. Wyss, V. 23, No. 2, Mar.-Apr. 1978, pp. 22-41.

"Acoustical Properties of Precast Concrete," V. 23, No. 2, Mar.-Apr. 1978, pp. 42-61.

"End Cracking in Prestressed Members During Detensioning," by J. F. Mirza and M. E. Tawfik, V. 23, No. 2, Mar.-Apr. 1978, pp. 66-78.

"Influence of Prestressing on Torsional Response of Concrete Beams," by Denis Mitchell and Michael P. Collins, V. 23, No. 3, May-June 1978, pp. 54-73.

"Guide Specification for Precast Prestressed Concrete for Buildings," Disc., by Anthony P. Chrest and Anthony C. Martin, and PCI Committee on Design Handbook, V. 23, No. 3, May-June 1978, pp. 90-91.

"Design of Partially Prestressed Concrete Flexural Members," Disc., by E. W. Bennett, M. Birkenmaier, T. Brondum-Nielsen, A. S. G. Bruggeling, F. Levi, A. E. Naaman and A. Siriaksorn, A. H. Nilson, F. N. Pannell, K. Rajagopalan, and Saad E. Moustafa, V. 23, No. 3, May-June 1978, pp. 92-105.

"Development Length of Prestressing Strand," Disc., by Arthur R. Anderson and Richard G. Anderson, Ake Holmberg, Leslie D. Martin and Norman L. Scott, Jagdish C. Nijhawan, K. J. Sanderson, and Paul Zia and Talat Mostafa, V. 23, No. 4, July-Aug. 1978, pp. 97-107.

"Volume Changes in Precast Prestressed Concrete Structures," Disc., by Dan E. Branson and PCI Committee on Design Handbook, V. 23, No. 4, July-Aug. 1978, p. 107.

"Behavior and Design of Prestressed Concrete Beams With Large Web Openings," Disc., by Peter Kocsis, and George B. Barney, W. Gene Corley, John M. Hanson, and Richard A. Parmelee, V. 23, No. 4, July-Aug. 1978, pp. 108-110.

"Tests of One-Way Post-Tensioned Slabs With Unbonded Tendons," by Ned H. Burns, Finley A. Charney and Wendell R. Vines, V. 23, No. 5, Sept.-Oct. 1978, pp. 66-83.

"Thermal Design of Precast Concrete Building Envelopes," Disc., by W. H. F. Saia and PCI Committee on Manual for Structural Design and PCI Committee on Design Handbook, V. 23, No. 5, Sept.-Oct. 1978, pp. 105-106.

"End Cracking in Prestressed Members During Detensioning," Disc., by M. S. Chawla, and J. F. Mirza and M. E. Tawfik, V. 23, No. 5, Sept.-Oct. 1978, pp. 106-107.

"Tentative Design and Construction Specifications for Bridge Deck Panels," Disc., by Robert M. Barnoff, F. G. Sutherland, and PCI Bridge Committee, V. 23, No. 6, Nov.-Dec. 1978, pp. 80-82.

"State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," Disc., by James M. Becker, Eric Elsesser, Robert E. Englekirk, Sepp Firnkas, Sigmund A. Freeman, Harry G. Harris, Vilas Mujumdar, Richard Spencer, and Neil M. Hawkins, V. 23, No. 6, Nov.-Dec. 1978, pp. 83-99.

ERECTION

"Precast Prestressed Concrete Industry—Code of Standard Practice for Precast Concrete," by PCI Committee on Industry Standards, V. 23, No. 1, Jan.-Feb. 1978, pp. 14-31.

"Recommended Practice for Design, Manufacture and Installation of Prestressed Concrete Piling," Disc., by H. Kent Preston and PCI Committee on Prestressed Concrete Piling, V. 23, No. 1, Jan.-Feb. 1978, p. 100.

GLASS FIBER REINFORCED CONCRETE

"Glass Fiber Reinforced Concrete Products—Properties and Applications," Disc., by Yogindra N. Anand, and John Jones and Thomas P. Lutz, V. 23, No. 2, Mar.-Apr. 1978, pp. 106-107.

HISTORY

"Reflections on the Beginnings of Prestressed Concrete in America—Part 1: Magnel's Impact on the Advent of Prestressed Concrete," by Charles C. Zollman, V. 23, No. 3, May-June 1978, pp. 21-48.

"Reflections on the Beginnings of Prestressed Concrete in America—Part 2: Dynamic American Engineers Sustain Magnel's Momentum," by Charles C. Zollman, V. 23, No. 4, July-Aug. 1978, pp. 29-67.

"Reflections on the Beginnings of Prestressed Concrete in America—The Bill Dean We Knew," by McLeod C. Nigels, V. 23, No. 5, Sept.-Oct. 1978, pp. 14-17.

"Reflections on the Beginnings of Prestressed Concrete in America—Part 3: The Innovators of Prestressed Concrete in Florida," by Harry Edwards, V. 23, No. 5, Sept.-Oct. 1978, pp. 18-43.

"Reflections on the Beginnings of Prestressed Concrete in America—Part 3 (cont.): The Innovators of Prestressed Concrete in Florida," by Harry Edwards, V. 23, No. 6, Nov.-Dec. 1978, pp. 19-35.

"Historical Notes—Precast Concrete Housing: The Youngstown Project," by Daniel L. Schodek, V. 23, No. 6, Nov.-Dec. 1978, pp. 54-64.

HOUSING

"Historical Notes—Precast Concrete Housing: The Youngstown Project," by Daniel L. Schodek, V. 23, No. 6, Nov.-Dec. 1978, pp. 54-64.

MATERIALS

"Glass Fiber Reinforced Concrete Products—Properties and Applications," Disc., by Yogindra N. Anand, and John Jones and Thomas P. Lutz, V. 23, No. 2, Mar.-Apr. 1978, pp. 106-107.

"Economic Feasibility of Polymer-Impregnated Concrete as a Building Material," Disc., by K. Rajagopalan, B. V. Subrahmanyam and K. Ganesh Babu, and S. A. Frondistou-Yannas and G. L. Dietz, V. 23, No. 3, Mar.-Apr. 1978, pp. 108-110.

"High-Range Water-Reducing Admixtures in Precast Concrete Operations," by Weston T. Hester, V. 23, No. 4, July-Aug. 1978, pp. 68-85.

"Prestressed Polymer Impregnated Tubes as Reinforcement," by J. B. Dansby and H. A. Sawyer, V. 23, No. 5, Sept.-Oct. 1978, pp. 84-104.

MISCELLANEOUS

"Highlights of Eighth FIP Congress (London)," by Daniel P. Jenny, V. 23, No. 3, May-June 1978, pp. 12-20.

"Preview of 1978 PCI Convention Program," V. 23, No. 4, July-Aug. 1978, pp. 16-28.

"Prestressed Concrete in People's Republic of China," by Ben C. Gerwick, Jr., V. 23, No. 4, July-Aug. 1978, pp. 90-96.

"Sixteenth Annual PCI Awards Program Winners," V. 23, No. 5, Sept.-Oct. 1978, pp. 44-65.

"Highlights of 1978 PCI Annual Convention," V. 23, No. 6, Nov.-Dec. 1978, pp. 12-17.

"Prestressed Concrete Developments in Japan," by Ben C. Gerwick, Jr., V. 23, No. 6, Nov.-Dec. 1978, pp. 66-76.

OPENINGS

"Behavior and Design of Prestressed Concrete Beams With Large Web Openings," Disc., by Peter Kocsis and George B. Barney, W. Gene Corley, John M. Hanson and Richard A. Parmelee, V. 23, No. 4, July-Aug. 1978, pp. 108-110.

PARTIAL PRESTRESSING

"Design of Partially Prestressed Concrete Flexural Members," Disc., by E. W. Bennett, M. Birkenmaier, T. Brondum-Nielsen, A. S. G. Bruggeling, F. Levi, A. E. Naaman and A. Siriaksorn, A. H. Nilson, F. N. Pannell, K. Rajagopalan, and Saad E. Moustafa, V. 23, No. 3, May-June 1978, pp. 92-105.

PEDESTRIAN BRIDGES

"Prestressed Concrete Pedestrian Bridges," V. 23, No. 2, Mar.-Apr. 1978, pp. 79-104.

"Multispan Prestressed Pedestrian Bridge," V. 23, No. 4, July-Aug. 1978, pp. 86-89.

PILES

"Recommended Practice for Design, Manufacture and Installation of Prestressed Concrete Piling," Disc., by H. Kent Preston and PCI Committee on Prestressed Concrete Piling, V. 23, No. 1, Jan.-Feb. 1978, p. 100.

POLYMERS

"Economic Feasibility of Polymer-Impregnated Concrete as a Building Material," Disc., by K. Rajagopalan, B. V. Subrahmanyam and K. Ganesh Babu, and S. A. Frondistou-Yannas and G. L. Dietz, V. 23, No. 2, Mar.-Apr. 1978, pp. 108-110.

"Prestressed Polymer Impregnated Tubes as Reinforcement," by J. B. Dansby and H. A. Sawyer, V. 23, No. 5, Sept.-Oct. 1978, pp. 84-104.

POST-TENSIONED SLABS

"Tests of One-Way Post-Tensioned Slabs With Unbonded Tendons," by Ned H. Burns, Finley A. Charney and Wendell R. Vines, V. 23, No. 5, Sept.-Oct. 1978, pp. 66-83.

PRODUCTION

"Precast Prestressed Concrete Industry—Code of Standard Practice for Precast Concrete," V. 23, No. 1, Jan.-Feb. 1978, pp. 14-31.

"Recommended Practice for Design, Manufacture and Installation of Prestressed Concrete Piling," Disc., by H. Kent Preston and PCI Committee on Prestressed Concrete Piling, V. 23, No. 1, Jan.-Feb. 1978, p. 100.

"Low Temperature Curing of Precast Prestressed Concrete Products," Disc., by Paul H. Coleman, Weston Hester and John B. Whittaker, V. 23, No. 2, Mar.-Apr. 1978, pp. 111-113.

RESEARCH

Bond

"Bond Characteristics of Untensioned Prestressing Strand," Disc., by E. Burnett and A. Anis, and John R. Salmons and Timothy E. McCrate, V. 23, No. 1, Jan.-Feb. 1978, pp. 95-99.

"Development Length of Prestressing Strand," Disc., by Arthur R. Anderson and Richard G. Anderson, Ake Holmberg, Leslie D. Martin and Norman L. Scott, Jagdish C. Nijhawan, K. J. Sanderson, and Paul Zia and Talat Mostafa. V. 23, No. 4, 1978, pp. 97-107.

Crack Control

"End Cracking in Prestressed Members During Detensioning," by J. F. Mirza and M. E. Tawfik, V. 23, No. 2, Mar.-Apr. 1978, pp. 66-78.

"Tests of One-Way Post-Tensioned Slabs With Unbonded Tendons," by Ned H. Burns, Finley A. Charney and Wendell R. Vines, V. 23, No. 5, Sept.-Oct. 1978, pp. 66-83.

"End Cracking in Prestressed Members During Detensioning," Disc., by M. S. Chawla and J. F. Mirza and M. E. Tawfik, V. 23, No. 5, Sept.-Oct. 1978, pp. 106-107.

General

"Full Scale Test of Continuous Prestressed Hollow-Core Slab," by I. Rosenthal, V. 23, No. 3, May-June 1978, pp. 74-81.

"Behavior and Design of Prestressed Concrete Beams With Large Web Openings," Disc., by Peter Kocsis and George B. Barney, W. Gene Corley, John M. Hanson and Richard A. Parmelee, V. 23, No. 4, July-Aug. 1978, pp. 108-110.

"Prestressed Polymer Impregnated Tubes as Reinforcement," by J. B. Dansby and H. A. Sawyer, V. 23, No. 5, Sept.-Oct. 1978, pp. 84-104.

Seismic Behavior

"State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," by Neil M. Hawkins, V. 23, No. 1, Jan.-Feb. 1978, pp. 40-58.

"State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," Disc., by James M. Becker, Eric Elsesser, Robert E. Englekirk, Sepp Firnkas, Sigmund A. Freeman, Harry G. Harris, Vilas Mujumdar, Richard Spencer,

and Neil M. Hawkins, V. 23, No. 6, Nov.-Dec. 1978, pp. 83-99.

Torsion

"Full Scale Torsion, Shear, and Bending Tests of Prestressed I-Girders," by A. H. Mattock and A. H. Wyss, V. 23, No. 2, Mar.-Apr. 1978, pp. 22-41.

"Influence of Prestressing on Torsional Response of Concrete Beams," by Denis Mitchell and Michael P. Collins, V. 23, No. 3, May-June 1978, pp. 54-73.

SEGMENTAL CONSTRUCTION

"Precast Prestressed Segmentally Constructed Air Traffic Control Tower," V. 23, No. 3, May-June 1978, pp. 82-89.

SEISMIC BEHAVIOR

"State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," by Neil M. Hawkins, V. 23, No. 1, Jan.-Feb. 1978, pp. 40-58.

"State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," Disc., by James M. Becker, Eric Elsesser, Robert E. Englekirk, Sepp Firnkas, Sigmund A. Freeman, Harry G. Harris, Vilas Mujumdar, Richard Spencer, and Neil M. Hawkins, V. 23, No. 6, Nov.-Dec. 1978, pp. 83-99.

SPECIFICATIONS, CODES AND RECOMMENDED PRACTICES

"Precast Prestressed Concrete Industry—Code of Standard Practice for Precast Concrete," V. 23, No. 1, Jan.-Feb. 1978, pp. 14-31.

"Tentative Design and Construction Specifications for Bridge Deck Panels," V. 23, No. 1, Jan.-Feb. 1978, pp. 32-39.

"Recommended Practice for the Design of Prestressed Concrete Columns and Bearing Walls," Disc., by Leslie D. Martin and PCI Committee on Prestressed Concrete Columns, V. 23, No. 1, Jan.-Feb. 1978, pp. 92-94.

"Recommended Practice for Design, Manufacture and Installation of Prestressed Concrete Piling," Disc., by H. Kent Preston and PCI Committee on Prestressed Concrete Piling, V. 23, No. 1, Jan.-Feb. 1978, p. 100.

"Proposed Revisions to Shear-Friction Provisions," by A. Fattah Shaikh, V. 23, No. 2, Mar.-Apr. 1978, pp. 12-21.

"Guide Specification for Precast Prestressed Concrete for Buildings," Disc., by Anthony P. Chrest and Anthony C. Martin, and PCI Committee on Design Handbook, V. 23, No. 3, May-June 1978, pp. 90-91.

"Volume Changes in Precast Prestressed Concrete Structures," Disc., by Dan E. Branson and PCI Committee on Design Handbook, V. 23, No. 4, July-Aug. 1978, p. 107.

"Tentative Design and Construction Specifications for Bridge Deck Panels," Disc., by Robert M. Barnoff, F. G. Sutherland, and PCI Committee on Bridges, V. 23, No. 6, Nov.-Dec. 1978, pp. 80-82.

STANDARDIZATION

"Approaches to Standardization of Architectural Precast Concrete Panels," by Richard Pollei, Michael R. Altenberg, and Jospeh Z. Garner, V. 23, No. 6, Nov.-Dec. 1978, pp. 36-52.

SUPERPLASTICIZERS

(see Admixtures)

THERMAL EFFECTS

"Thermal Design of Precast Concrete Building Envelopes," V. 23, No. 1, Jan.-Feb. 1978, pp. 60-90.

"Thermal Design of Precast Concrete Building Envelopes," Disc., by W. H. F. Saia, and PCI Committee on Manual for Structural Design and PCI Committee on Design Handbook, V. 23, No. 5, Sept.-Oct. 1978, pp. 105-106.

* * *

AUTHOR'S INDEX

Altenberg, Michael R.—"Approaches to Standardization of Architectural Precast Concrete Panels," V. 23, No. 6, Nov.-Dec. 1978, pp. 36-52.

Anand, Yogindra—Disc., "Glass Fiber Reinforced Concrete Products—Properties and Applications," V. 23, No. 2, Mar.-Apr. 1978, pp. 106-107.

Anderson, Arthur R.—Disc., "Development Length of Prestressing Strand," V. 23, No. 4, July-Aug. 1978, pp. 97-107.

Anderson, Richard G.—Disc., "Development Length of Prestressing Strand," V. 23, No. 4, July-Aug. 1978, pp. 97-107.

Anis, A.—Disc., "Bond Characteristics of Untensioned Prestressing Strand," V. 23, No. 1, Jan.-Feb. 1978, pp. 95-99.

Babu, K. Ganesh—Disc., "Economic Feasibility of Polymer-Impregnated Concrete as a Building Material," V. 23, No. 2, Mar.-Apr. 1978, pp. 108-110.

Barney, George B.—Closure, "Behavior and Design of Prestressed Concrete Beams With Large Web Openings," V. 23, No. 4, July-Aug. 1978, pp. 108-110.

Barnoff, Robert M.—Disc., "Tentative Design and Construction Specifications for Bridge Deck Panels," V. 23, No. 6, Nov.-Dec. 1978, pp. 80-82.

Becker, James M.—Disc., "State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," V. 23, No. 6, Nov.-Dec. 1978, pp. 83-99.

Bennett, E. W.—Disc., "Design of Partially Prestressed Concrete Flexural Members," V. 23, No. 3, May-June 1978, pp. 92-105.

Birkenmaier, M.—Disc., "Design of Partially Prestressed Concrete Flexural Members," V. 23, No. 3, May-June 1978, pp. 92-105.

Branson, Dan E.—Disc., "Volume Changes in Precast Prestressed Concrete Structures," V. 23, No. 4, July-Aug. 1978, p. 107.

Brondum-Nielsen, T.—Disc., "Design of Partially Prestressed Concrete Flexural Members," V. 23, No. 3, May-June 1978, pp. 92-105.

Bruggeling, A. S. G.—Disc., "Design of Partially Prestressed Concrete Flexural Members," V. 23, No. 3, May-June 1978, pp. 92-105.

Burnett, E.—Disc., "Bond Characteristics of Untensioned Prestressing Strand," V. 23, No. 1, Jan.-Feb. 1978, pp. 95-99.

Burns, Ned H.—"Tests of One-Way Post-Tensioned Slabs With Unbonded Tendons," V. 23, No. 5, Sept.-Oct. 1978, pp. 66-83.

Charney, Finley A.—"Tests of One-Way Post-Tensioned Slabs With Unbonded Tendons," V. 23, No. 5, Sept.-Oct. 1978, pp. 66-83.

Chawla, M. S.—Disc., "End Cracking in Prestressed Members During Detensioning," V. 23, No. 5, Sept.-Oct. 1978, pp. 106-107.

Chrest, Anthony P.—Disc., "Guide Specification for Precast Prestressed Concrete for Buildings," V. 23, No. 3, May-June 1978, pp. 90-91.

Coleman, Paul H.—Disc., "Low Temperature Curing of Precast Prestressed Concrete Products," V. 23, No. 2, Mar.-Apr. 1978, pp. 111-113.

Collins, Michael P.—"Influence of Prestressing on Torsional Response of Concrete Beams," V. 23, No. 3, May-June 1978, pp. 54-73.

Corley, W. Gene—Closure, "Behavior and Design of Prestressed Concrete Beams With Large Web Openings," V. 23, No. 4, July-Aug. 1978, pp. 108-110.

Dansby, J. B.—"Prestressed Polymer Impregnated Tubes as Reinforcement," V. 23, No. 5, Sept.-Oct. 1978, pp. 84-104.

Dietz, G. L.—Closure, "Economic Feasibility of Polymer-Impregnated Concrete as a Building Material," V. 23, No. 2, Mar.-Apr. 1978, pp. 108-110.

Edwards, Harry
—"Reflections on the Beginnings of Prestressed Concrete in America—Part 3: The Innovators of Prestressed Concrete

in Florida," V. 23, No. 5, Sept.-Oct. 1978, pp. 18-43.

—"Reflections on the Beginnings of Prestressed Concrete in America—Part 3 (cont): The Innovators of Prestressed Concrete in Florida," V. 23, No. 6, Nov.-Dec. 1978, pp. 19-35.

Elsesser, Eric—Disc., "State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," V. 23, No. 6, Nov.-Dec. 1978, pp. 83-99.

Englekirk, Robert E.—Disc., "State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," V. 23, No. 6, Nov.-Dec. 1978, pp. 83-99.

Firnkas, Sepp—Disc., "State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," V. 23, No. 6, Nov.-Dec. 1978, pp. 83-99.

Freeman, Sigmund A.—Disc., "State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," V. 23, No. 6, Nov.-Dec. 1978, pp. 83-99.

Frondistou-Yannas, S. A.—Closure, "Economic Feasibility of Polymer-Impregnated Concrete as a Building Material," V. 23, No. 2, Mar.-Apr. 1978, pp. 108-110.

Garner, Joseph Z.—"Approaches to Standardization of Architectural Precast Concrete Panels," V. 23, No. 6, Nov.-Dec. 1978, pp. 36-52.

Gerwick, Ben C. Jr.

—"Prestressed Concrete in People's Republic of China," V. 23, No. 4, July-Aug. 1978, pp. 90-96.

—"Prestressed Concrete Developments in Japan," V. 23, No. 6, Nov.-Dec. 1978, 66-76.

Hanson, John M.—Closure, "Behavior and Design of Prestressed Concrete Beams With Large Web Openings," V. 23, No. 4, July-Aug. 1978, pp. 108-110.

Harris, Harry G.—Disc., "State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," V. 23, No. 6, Nov.-Dec. 1978, pp. 83-99.

Hawkins, Neil M.

—"State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," V. 23, No. 1, Jan.-Feb. 1978, pp. 40-58.

—Closure, "State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," V. 23, No. 6, Nov.-Dec. 1978, pp. 83-99.

Hester, Weston T.

—Disc., "Low Temperature Curing of Precast Prestressed Concrete Products," V. 23, No. 2, Mar.-Apr. 1978, pp. 111-113.

—"High-Range Water-Reducing Admixtures in Precast Concrete Operations," V. 23, No. 4, July-Aug. 1978, pp. 68-85.

Holmberg, Ake—Disc., "Development Length of Prestressing Strand," V. 23, No. 4, July-Aug. 1978, pp. 97-107.

Jenny, Daniel P.—"Highlights of Eighth FIP Congress (London)," V. 23, No. 3, May-June 1978, pp. 12-20.

Jones, John—Closure, "Glass Fiber Reinforced Concrete Products—Properties and Applications," V. 23, No. 2, Mar.-Apr. 1978, pp. 106-107.

Kocsis, Peter—Disc., "Behavior and Design of Prestressed Concrete Beams With Large Web Openings," V. 23, No. 4, July-Aug. 1978, pp. 108-110.

Levi, F.—Disc., "Design of Partially Prestressed Concrete Flexural Members," V. 23, No. 3, May-June 1978, pp. 92-105.

Lutz, Thomas P.—Closure, "Glass Fiber Reinforced Concrete Products—Properties and Applications," V. 23, No. 2, Mar.-Apr. 1978, pp. 106-107.

Marohn, Gerd. H.

—"The Institute and You," V. 23, No. 1, Jan.-Feb. 1978, p. 13.

—"Political Action? or Merely, Reaction?" V. 23, No. 2, Mar.-Apr. 1978, p. 11.

—"FIP — 25 Years of Excellence," V. 23, No. 3, May-June 1978, p. 11.

—"Operation Update," V. 23, No. 4, July-Aug. 1978, p. 13.

—"The New 'Red Book'," V. 23, No. 5, Sept.-Oct. 1978, p. 11.

—"Continued Growth," V. 23, No. 6, Nov.-Dec. 1978, p. 11.

Martin, Anthony C.—Disc., "Guide Specification for Precast Prestressed Concrete for Buildings," V. 23, No. 3, May-June 1978, pp. 90-91.

Martin, Leslie, D.

—Disc., "Recommended Practice for the Design of Prestressed Concrete Columns and Bearing Walls," V. 23, No. 1, Jan.-Feb. 1978, pp. 92-94.

—Disc., "Development Length of Prestressing Strand," V. 23, No. 4, July-Aug. 1978, pp. 97-107.

Mattock, Alan H.—"Full Scale Torsion, Shear, and Bending Tests of Prestressed I-Girders," V. 23, No. 2, Mar.-Apr. 1978, pp. 22-41.

McCrate, Timotny E.—Closure, "Bond Characteristics of Untensioned Prestressing Strand," V. 23, No. 1, Jan.-Feb. 1978, pp. 95-99.

McLeod, Nigels, C.—"Reflections on the Beginnings of Prestressed Concrete in America—The Bill Dean We Knew," V. 23, No. 5, Sept.-Oct. 1978, pp. 14-17.

Mirza, J. F.

—"End Cracking in Prestressed Members During Detensioning," V. 23, No. 2, Mar.-Apr. 1978, pp. 66-78.

—Closure, "End Cracking in Prestressed Members During Detensioning," V. 23, No. 5, Sept.-Oct. 1978, pp. 106-107.

Mitchell, Denis—"Influence of Prestressing on Torsional Response of Concrete Beams," V. 23, No. 3, May-June 1978, pp. 54-73.

Mostafa, Talat—Closure, "Development Length of Prestressing Strand," V. 23, No. 4, July-Aug. 1978, pp. 97-107.

Moustafa, Saad E.—Closure, "Design of Partially Prestressed Concrete Flexural Members," V. 23, No. 3, May-June 1978, pp. 92-105.

Mujumdar, Vilas—Disc., "State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," V. 23, No. 6, Nov.-Dec. 1978, pp. 83-99.

Naaman, A. E.—Disc., "Design of Partially Prestressed Concrete Flexural Members," V. 23, No. 3, May-June 1978, pp. 92-105.

Nijhawan, Jagdish C.—Disc., "Development Length of Prestressing Strand," V. 23, No. 4, July-Aug. 1978, pp. 97-107.

Nilson, A. H.—Disc., "Design of Partially Prestressed Concrete Flexural Members," V. 23, No. 3, May-June 1978, pp. 92-105.

Pannell, F. N.—Disc., "Design of Partially Prestressed Concrete Flexural Members," V. 23, No. 3, May-June 1978, pp. 92-105.

Parmelee, Richard A.—Closure, "Behavior and Design of Prestressed Concrete Beams With Large Web Openings," V. 23, No. 4, July-Aug. 1978, pp. 108-110.

Pollei, Richard—"Approaches to Standardization of Architectural Precast Concrete Panels," V. 23, No. 6, Nov.-Dec. 1978, pp. 36-52.

Preston, H. Kent—Disc., "Recommended Practice for Design, Manufacture and Installation of Prestressed Concrete Piling," V. 23, No. 1, Jan.-Feb. 1978, p. 100.

Rajagopalan, K.

—Disc., "Economic Feasibility of Polymer-Impregnated Concrete as a Building Material," V. 23, No. 2, Mar.-Apr. 1978, pp. 108-110.

—Disc., "Design of Partially Prestressed Concrete Flexural Members," V. 23, No. 3, May-June 1978, pp. 92-105.

Rosenthal, I.—"Full Scale Torsion, Shear, and Bending Tests of Prestressed I-Girders," V. 23, No. 2, Mar.-Apr. 1978, pp. 22-41.

Saia, W. H. F.—Disc., "Thermal Design of Precast Concrete Building Envelopes," V. 23, No. 5, Sept.-Oct. 1978, pp. 105-106.

Salmons, John R.—Closure, "Bond Characteristics of Untensioned Prestressing Strand," V. 23, No. 1, Jan.-Feb. 1978, pp. 95-99.

Sanderson, K. J.—Disc., "Development Length of Prestressing Strand," V. 23, No. 4, July-Aug. 1978, pp. 97-107.

Sawyer, H. A.—"Prestressed Polymer Im-

pregnated Tubes as Reinforcement," V. 23, No. 5, Sept.-Oct. 1978, pp. 84-104.

Schodek, Daniel L.—"Historical Notes—Precast Concrete Housing: The Youngstown Project," V. 23, No. 6, Nov.-Dec. 1978, pp. 54-64.

Scott, Norman L.—Disc., "Development Length of Prestressing Strand," V. 23, No. 4, July-Aug. 1978, pp. 97-107.

Shaikh, A. Fattah—"Proposed Revisions to Shear-Friction Provisions," V. 23, No. 2, Mar.-Apr. 1978, pp. 12-21.

Siriaksorn, A.—Disc., "Design of Partially Prestressed Concrete Flexural Members," V. 23, No. 3, May-June 1978, pp. 92-105.

Spencer, Richard—Disc., "State-of-the-Art Report on Seismic Resistance of Prestressed and Precast Concrete Structures," V. 23, No. 6, Nov.-Dec. 1978, pp. 83-99.

Subrahmanyam, B. V.—Disc., "Economic Feasibility of Polymer-Impregnated Concrete as a Building Material," V. 23, No. 2, Mar.-Apr. 1978, pp. 108-110.

Sutherland, F. G.—Disc., "Tentative Design and Construction Specifications for Bridge Deck Panels," V. 23, No. 6, Nov.-Dec. 1978, pp. 80-82.

Tawfik, M. E.

—"End Cracking in Prestressed Members During Detensioning," V. 23, No. 2, Mar.-Apr. 1978, pp. 66-78.

—Closure, "End Cracking in Prestressed Members During Detensioning," V. 23, No. 5, Sept.-Oct. 1978, pp. 106-107.

Vines, Wendell R.—"Tests of One-Way Post-Tensioned Slabs With Unbonded Tendons," V. 23, No. 5, Sept.-Oct. 1978, pp. 66-83.

Whittaker, John B.—Closure, "Low Temperature Curing of Precast Prestressed Concrete Products," V. 23, No. 2, Mar.-Apr. 1978, pp. 111-113.

Wyss, A. H.—"Full Scale Torsion, Shear, and Bending Tests of Prestressed I-Girders," V. 23, No. 2, Mar.-Apr. 1978, pp. 22-41.

Zia, Paul—Closure, "Development Length of Prestressing Strand," V. 23, No. 4, July-Aug. 1978, pp. 97-107.

Zollman, Charles C.

—"Reflections on the Beginnings of Prestressed Concrete in America—Part 1: Magnel's Impact on the Advent of Prestressed Concrete," V. 23, No. 3, May-June 1978, pp. 21-48.

—"Reflections on the Beginnings of Prestressed Concrete in America—Part 2: Dynamic American Engineers Sustain Magnel's Momentum," V. 23, No. 4, July-Aug. 1978, pp. 29-67.

* * *

NOTE

A cumulative subject index of the PCI JOURNAL (1956-1973) is available. Thereafter, annual indexes have been published in each November-December JOURNAL issue.